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SKYLAB - EREP Investigations of
Wetlands Ecology

NASI - 12209

August 6, 1974 to October 6, 1974

Progress Report No. 9

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Bi-Monthly Progress Report
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I. Overall Status of the Project

With reference to the Milestone Plan and Project Objectives, the overall status of the project is as follows:

1. Field trips scheduled for June through August 1974 for vegetation map field checking and ground truth update have been completed.
2. Analysis of Skylab data, comparison of these data with ERTS and investigation of possible techniques for mapping wetland information is continuing.
3. The SL 2 and 3 B&W 4x enlargements have been reprocessed by J.S.C. Five different exposures and two film types were used for each of the four bands. Analysis of these data are nearly complete and indications are that at least one of the reprocessing methods provides information superior to that of our original data.
4. The 70 mm B&W data have been used to produce a false color IR composite, enlarged to 1:250,000 scale. This is being compared to an enlarged transparency of the 70 mm color IR photograph for resolution and color fidelity.

II. Recommendations to Ensure Attainment of Project Objectives

The following Skylab data, which would be very useful, have been requested, but not received:

SKYLAB 3 S190A

Rolls 18-23, Frames 193-197 (Chesapeake, Sept.)

SKYLAB 3 S190B

Roll 83, Frames 164-169 (Chesapeake, Sept.)

Roll 86, Frames 299-302 (New Jersey-Chesapeake, Sept.)

III. Expected Accomplishments for November - December, 1974

With reference to the SKYLAB FINAL PRODUCT FLOW CHART presented in Progress Report No. 5, the following steps are expected to be completed during the next two months:

1. completion of final product overlays
2. continue comparisons with S190B and ERTS data
3. complete analysis of reprocessed B&W transparencies
4. begin final report outline preparation.

IV. Significant Results

Information from the completed pilot study area maps is being transferred to the final map product overlays. The ERTS map base with grid is in preparation.

Ms. Linda Alsid completed requirements for M.S. degree and is no longer associated with the project. copies of her thesis have been forwarded to the technical monitor at NASA, Langley.

V. Summary Outlook for Remaining Effort

Preparation of the final products to meet project objectives will continue.

VI. Travel Summary

Two field trips were made to the test area. One additional field trip to the southern test site may be necessary to interpret winter Skylab data.